

WEST

Generate Collection

L10: Entry 1 of 1

File: USPT

Jun 11, 2002

DOCUMENT-IDENTIFIER: US 6405219 B2

TITLE: Method and system for automatically updating the version of a set of files stored on content servers

Abstract Text (1):

A method and system for managing the replication and version synchronization of updates to a set of source files on geographically distributed heterogeneous content servers with minimal impact on a network's bandwidth. The configuration of each content server is either manually entered or automatically determined. The current version of the source files are created on at least one source server. A Primary global server stores a copy of the current version of the set of the source files along with the configuration of each content server. The Primary global server generates and distributes a particular version change container and version distribution list to each remotely located Secondary global server. Each Secondary global server employs the version distribution list and the contents of the version change container to identify the current version of each source file necessary to upgrade the set of source files on each local content server. Each identified source file is copied to a sub-directory on each local content server associated with the Secondary global server. At each local content server, the renaming of each copied source file is employed to update to the current version of the set of source files on the content server. A versioned file tree repository for the set of source files includes archived objects. When the version distribution list identifies a previous version, the current version of source files on the local content servers can be rolled back to the previous version.

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Generate Collection

L3: Entry 3 of 14

File: USPT

Jul 9, 2002

US-PAT-NO: 6418452

DOCUMENT-IDENTIFIER: US 6418452 B1

TITLE: Network repository service directory for efficient web crawling

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kraft; Reiner	Gilroy	CA		
Emens; Michael Lawrence	San Jose	CA		

US-CL-CURRENT: 707/200; 707/1, 707/10, 707/104.1, 707/201, 707/203, 709/201, 709/203,
709/223, 709/224, 709/225, 709/226

ABSTRACT:

A master repository service maintains a directory of web servers and the most recent times that their web contents were modified, and provides this information to web crawlers to increase their efficiency. The master repository service receives web content update reports from a plurality of web servers, updates the directory to keep it current, and provides crawlers with web site modification information. The web site modification information preferably comprises identifiers for new web sites, "dead" web sites, and modified web sites. Each crawler is preferably provided only with web site modification information received since it last received information from the master repository service. The information allows web crawlers to know immediately about new web sites, and allows them to spend time visiting only those web sites that are new or that have changed their content.

15 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

WEST

End of Result Set

Generate Collection

Print

L7: Entry 1 of 1

File: USPT

Nov 24, 1998

US-PAT-NO: 5842216

DOCUMENT-IDENTIFIER: US 5842216 A

TITLE: System for sending small positive data notification messages over a network to indicate that a recipient node should obtain a particular version of a particular data item

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; David	Belmont	MA		
Waters; Richard C.	Concord	MA		

US-CL-CURRENT: 707/203; 707/201, 709/203, 717/170

ABSTRACT:

A system is provided for eliminating time-consuming, unnecessary transfers of data over networks such as the the World Wide Web while at the same time guaranteeing timeliness of the data used by recipients. Timeliness is assured by immediately sending small data-notification messages whenever data becomes relevant or changes. Efficiency is guaranteed by transmitting the data itself only when requested by the recipient of a data-notification message. In particular, recipients are alerted to the presence of, and changes in, data they might use by data-notification messages containing a timestamp, the data location, and a checksum. Based on the timestamp, the recipient can determine whether the data-notification message contains timely information or should be ignored. Based on the data location and checksum, the recipient can determine whether it already has the current version of the data in question, for example stored in a cache.

9 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

WEST

Freeform Search

Database:

US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Term:**Display:** **Documents in Display Format:** **Starting with Number** **Generate:** ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

Search

Clear

Help

Logout

Interrupt

Main Menu

Show S Numbers

Edit S Numbers

Preferences

Cases

Search History

DATE: Monday, December 02, 2002 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=ADJ

<u>L12</u>	(identify\$3 or determin\$3) same (modification or changes or update) same (master or primary or original or source) near3(copy or file or volume) same (replicat\$3 or propogat\$3 or transmit\$4)	67	<u>L12</u>
<u>L11</u>	(identify\$3 or determin\$3) same (modification or changes or update) near3 (master or primary or original or source) near5 (file or volume) same (replicat\$3 or propogat\$3 or transmit\$4)	6	<u>L11</u>
<u>L10</u>	(identify\$3 or determin\$3) near5 (modification or changes or update) near3 (master or primary or original or source) (file or volume) same (replicat\$3 or propogat\$3 or transmit\$4)	1	<u>L10</u>
<u>L9</u>	(identify\$3 or determin\$3) near5 (modification or changes) near3 (file or volume or repository) same (master or primary or original or source) same (replicat\$3 or propogat\$3 or transmit\$4) sa	0	<u>L9</u>
<u>L8</u>	5842216[uref]	15	<u>L8</u>
<u>L7</u>	L6 same (web server or web)	1	<u>L7</u>
<u>L6</u>	(identify\$3 or determin\$3) near5 (modification or changes) same (master or primary or original or source) same (replicat\$3 or propogat\$3 or transmit\$4)	404	<u>L6</u>
<u>L5</u>	web server with (master or primary or original or source) same (replicat\$3 or distribut\$3 or propogat\$3)	27	<u>L5</u>
<u>L4</u>	(5845290 5860071 5890152 6038610 6073135 6182085 6249795 6263364 6269370 6292894 6295529)! [pn]	11	<u>L4</u>
<u>L3</u>	web server with (master or primary or original or source) same (replicat\$3 or distribut\$3 or propogat\$3) same (notif\$6 or informa\$6 or feedback)	14	<u>L3</u>
<u>L2</u>	(web or server or internet) with (master or primary or original or source) same (replicat\$3 or distribut\$3 or propogat\$3) same (notif\$6 or informa\$6 or feedback)	604	<u>L2</u>
<u>L1</u>	6182117.pn.	1	<u>L1</u>

END OF SEARCH HISTORY